

~~SECRET~~

CIA/RR CB 60-33

Copy No. 29
31 May 1960

ST/PC

CURRENT SUPPORT BRIEF

COMMUNIST CHINA BUILDS LARGE MARINE DIESEL

OFFICE OF RESEARCH AND REPORTS

CENTRAL INTELLIGENCE AGENCY

This report represents the immediate views of the originating intelligence components of the Office of Research and Reports. Comments are solicited.

W - A - R - N - I - N - G

This document contains information affecting the national defense of the United States, within the meaning of the espionage laws, Title 18 USC, Sections 793 and 794, the transmission or revelation of which in any manner to an unauthorized person is prohibited by law.

~~SECRET~~

SECRET

COMMUNIST CHINA BUILDS LARGE MARINE DIESEL

Communist China has installed the first domestically built, low RPM, high horsepower (8800) marine diesel in the new merchant vessel, "East Wind." 1/ The diesel engine for this vessel was most likely completed in late 1959. Low RPM marine diesels, which do not require reduction gears, have been slow in development within the Sino-Soviet bloc. This new engine is, therefore, a major accomplishment for both the Chinese marine component industry and for the Sino-Soviet bloc.

The 8800-horsepower diesel was built in the Hutung Shipyard in Shanghai. It is the largest marine diesel known to have been produced within the bloc. It may be of native Chinese design. The Chinese Communist press has indicated that the Fourth Planning Production Office of the Ninth Bureau, First Ministry of Machine Building 2/, was the responsible design authority, and no licensing arrangements between China and Western diesel manufacturers have been noted.

Prior to the acquisition of marine diesel patent rights by other bloc countries from Western manufacturers, marine diesel production within the bloc had been limited to the lower ranges of horsepower and to high RPM engines. In the USSR diesel production has been limited to high RPM engines of about 3000 horsepower. In 1959 the USSR concluded contracts with the Danish firm, Burmeister and Wain, the world's largest producer of large diesel engines for stationary and marine use. 3/ The contracts allowed the USSR to produce any B & W diesel engine under license and in unlimited volume. The Bryansk Machine Building Plant is preparing to produce low RPM ship diesel engines of 3000 to 12,500 horsepower for use in ocean-going vessels. 4/ As a result of the licensing agreement these will undoubtedly be built according to specifications supplied by Burmeister and Wain. Poland and East Germany are both active in diesel production. In 1959 Poland produced a 7800-horsepower diesel under a license obtained from Sulzer in Switzerland in 1956, although it was produced largely from imported parts. At the time, this engine was the largest diesel known to have been produced in the bloc. East Germany was licensed in 1956 or 1957 by a West German firm, Maschinenfabrik Augsburg-Nurnberg (MAN), to build a 4500-horsepower diesel. This engine went into production in 1958. Both Poland and East Germany have built smaller engines of a similar type.

In addition to the 8800-horsepower diesel, China has developed production of smaller diesel engines. Two new diesels were produced in the latter part of 1958. One of these was a 3000 horsepower, low RPM diesel turned out by the Dairen Shipyard, while the other was a 2000 horsepower, low RPM engine built at the Hutung Shipyard. In 1959 an exhaust turbo-supercharger for the 2000-horsepower engine was successfully built, which will probably increase the horsepower rating of this engine to between 2500 and 3000 horsepower. The Dairen Shipyard is reported to be in the process of developing a 5000-horsepower diesel. The Chinese shipbuilding industry is thus achieving a fair range of sizes in this field.

It is impossible to document the full extent of development in the marine component industry in China. The degree to which the Chinese have mastered diesel engine production would suggest that other major components may be in similar stages of development.

SECRET

Analyst:

Coord:

25X1A

Sources:

1. [REDACTED]
2. USNLO, Hong Kong, No. 433-58, 10 Oct 58. U.
3. State. Copenhagen, desp 585, 23 Jan 59. C.
4. Promyshlenno-Ekonomicheskaya Gazeta, 2 Mar 60, p. 4. U.

STATSPEC

Deleted

31 May 1960

CIA/RR CB 60-33

Page 3

SECRET

TO: Chief, Dissemination Branch, Support Staff, OCI
FROM: Chief, Current Support Staff, ORR

Please return to St/CS

Approved For Release 2000/05/12 : CIA-RDP79T01003A000900330001-5

SUBJECT: Distribution of Current Support ~~Information~~ No. 60-33

COMMUNIST CHINA BUILDS LARGE MARINE DIESEL
(Title)

31 May 1960
(Date)

Brief

Please distribute the attached Current Support ~~Information~~ No. 60-33
as follows:

Copy No. Recipient Copy No. Recipient

1 - DD/I) 25X1A
2-3 - NIC)
4-11 - OCI Internal) D-I-S-T-R-I-B-U-T-E-D B-Y O-C-I
12-18 - NSA, [redacted]
19-25 - St/CS/ORR)

26 - AD/ORR
27 - ~~DD/ORR~~
28 - Ch/E/ORR
29-46 - St/P/C/ORR ST/P/C
47 - St/PR/ORR
48 - Ch/D/A/ORR
49-50 - A/U/ORR
51 - A/F/ORR
52 - A/E/ORR
53 - A/PC/ORR
54 - Ch/D/M/ORR
55 - M/AG/ORR
56 - M/CH/ORR
57 - M/FM/ORR
58 - M/NF/ORR
59-61 - M/FP/ORR
62-63 - Ch/D/I/ORR 64 - T/GM
64-65 - ~~DD/ORR~~ 65 - T/D
66 - T/I
67 - T/C
68 - I/ME/ORR
69 - I/MS/ORR
70 - I/PE/ORR
71 - ~~DD/ORR~~
72 - ~~DD/ORR~~ I/ASA
73 - I/EE/ORR

74 - Ch/D/S/ORR
75 - S/TF/ORR S/ED
76 - S/TF/ORR
77 - S/TF-SP/ORR
(via S/TF/ORR)
78 - S/TR/ORR
79 - S/COM/ORR 21, 24, 25 Bldg
80 - S/CST/ORR
81-82 - D/GG/ORR 115-164
83 - D/GG/N/ORR 120-Des

25X1A 212, Bldg. 11
84-88 - Ch/St/I/ORR
89 - St/I/R/ORR
90-91 - St/I/P/ORR
92 - EIC/S/ORR 25X1A
93 - CCS/PIC
Attn. [redacted]
514 Steuart Bldg.
94 - EE/ONE
95 - NED/OSI
96 - IPS/CSS/OSI
97 - ~~DD/ORR~~ 25X1A
98 - OISD

Additional Distribution:

25X1A

97, 99 - OCR DOCUMENTS Division Desk

27

Standard Distribution

100-104

St/P/C per
request

25X1A

Distributed:

6/3/60
(Date)

25X1A

25X1A

(Initials)

RR/St/CS: [redacted] ew/4555(29 July 59)

Chief, Current Support Staff

Approved For Release 2000/05/12 : CIA-RDP79T01003A000900330001-5

Please return to St/CS

Approved For Release 2000/05/12 : CIA-RDP79T01003A000900330001-5

~~31 May 1960~~
(Date)

TO: Chief, Dissemination Branch, Support Staff, OCI

FROM: Chief, Current Support Staff, ORR

SUBJECT: Distribution of Current Support ~~Brief~~ Memorandum No. ~~60-33~~

055

COMMUNIST CHINA BUILDS LARGE MARINE DIESEL

(Title)

~~31 May 1960~~
(Date)

Please distribute the attached Current Support ~~Brief~~ Memorandum No. ~~60-33~~ as follows:

Copy No.

Recipient

1

DD/I

2- 3

NIC

25X1A

4

AD/OCI (via [REDACTED])

5

CA/SSB/OCI

6

PRES/OCI

7

CS/ECON/OCI

8

NSAL

9

INDICO/OCI

10

_____/OCI

11

_____/OCI

12-18

Director NSA
Washington 25, D. C.
Attention: [REDACTED]

25X1A

25X1A

19-25

St/CS/ORR

26- [REDACTED]

Chief, St/I/D/ORR
1338 M Building

25X1A

25X1A

19- [REDACTED]

20 - St/CS, M.F.

25X1A

(ONI)

21 - St/A/C

22 - St/P/C

23 - 1/ASA

25X1A

Chief, Current Support Staff

Distributed: [Signature]

(Date)

REL

(Initials)

Approved For Release 2000/05/12 : CIA-RDP79T01003A000900330001-5

RR/St/CS: [REDACTED] j1/4555(29 July 59)

SECRET

ROUTING AND RECORD SHEET

SUBJECT: (Optional)

COMMUNIST CHINA BUILDS LARGEST
CEB DRAFT: MARINE DIESEL IN SINO-SOVIET BLOC

FROM:

Ch/St/CS

NO.

DATE

13 May 1960

25X1A

TO: (Officer designation, room number, and building)

DATE

RECEIVED

FORWARDED

OFFICER'S INITIALS

COMMENTS (Number each comment to show from whom to whom. Draw a line across column after each comment.)

1.

Monitor

2.

Typist

3.

Proofers

25X1A

4.

Monitor

5.

Author

6.

Ch/St/CS

7.

Ch/ERA

8.

Ch/St/CS

9.

OCI Printers

10.

11.

12.

13.

14.

15.

① Coord with OSI -

② Dist to [redacted]

25X1A

Please Add 4 copies to [redacted] bundle & request distribution per [redacted] list in

25X1A

ONI

Add 25X1A

to [redacted] list of coordinators.

(Per 7.15. request)

CSS No. 60-33

Date 31 May 60

29 File copy

30

31

32

33

34

35

36

37

38

39

40

41-42

43

44

45

46

100-103 ONI 20 June 60

104

Ret'd to CSS

20 Records Center 10 Sep 64
Sent: 9 June 60

STATINTL